Madison Mine MoDo 48633415

### Attachment #5 - References

4-4-86

3.500 MADISON COUNTY - Anschutz Corporation (Water Pollution File)

3.500 MADISON COUNTY - Anschutz Corporation (Hazardous Waste File)

3.000 MADISON COUNTY - General File

2075810

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# POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION					
OI STATE	02	SITE	NUMBER		
IMO	ľ				

SEPA	PRELIMINARY PART 1 - SITE INFORMA			MENT	MO	2 SITE NUMBER	
IL SITE NAME AND LOCATION	<del></del>						
O1 SITE NAME (Legal, common, or descriptive name of site)		02 STREE	T. ROUTE NO. O	A SPECIFIC LOCATION	NIDENTIFIER		
	r.a. 1. n.a.	1110	<b>5</b> .1		3 A		
Anschut- Mining Co.	p. Madison Mine	1901	Novah	Mine La	2 Mott	E TOTCOUNT	10-00-0
03 CITY		04 STATE	05 ZIP CODE	08 COUNTY		COOE	DIST
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Frederic Istown	LONGITUDE		<del></del>	<del></del>			^- <u>-</u>
37 33 24.9	90 TP 39.3	1			•		
10 DIRECTIONS TO SITE (Starting from nearest public road)		<u> </u>		<del></del>	<del></del>		
Bus. 671V to Marvin Ave	East. Yumil	e fuc	n Frederi	ichtown			
IIL RESPONSIBLE PARTIES							
01 OWNER (# Amount		02 STREE	T (Business, making,	residential)			
Anschutz Mining Corp	aug timo	2400	Anace	unda Town	· 55.	C 17+h	5+
O3 CITY	OVAC TY COVE	04 STATE	05 ZIP CODE	nda Towa TOB TELEPHONE	NUMBER	1	<u></u>
		100	0000	1303129	8-1000	l .	
Denver  07 OPERATOR (If aroun and deferent from owner)		20 57055	T (Business, Markers,	101/1		<u> </u>	
		DO SINEE	, i izusznett, m <b>elen</b> g,	· escenies			
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09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE	NUMBER	1	
		1	}	( )		1	
13 TYPE OF OWNERSHIP (Check one)	<del></del>	·	·			L	
☐ A. PRIVATE ☐ B. FEDERAL: _			_ C. STA	TE CO.COUNTY	D E. MU	NICIPAL	
The arms Company to	(Agency name)						'
EF. OTHER: Corporate	(Specify)		_ G.UNK	MOMN			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check as	that apply)						
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EXYES DATE 2,15,36		A CONTRA	CTOR 1	C. STATE	D. OTHER	CONTRACTOR	1
NO MONTH DAY YEAR	E. LOCAL HEALTH OFF	ICIAL [	I F. OTHER:		(Parada)		-
	CONTRACTOR NAME(S):				(Specify)		_
02 SITE STATUS (Checa one)	03 YEARS OF OPER						
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		SEGINNING Y	AR ENDIN	KG YEAR			
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acids, Lead, PCB's, Col	oult						
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05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONA	AEMT AND/OR DOOL!! ATION						<del></del>
^		•					
Possible surtage water	contaminat	101					
V. PRIORITY ASSESSMENT				<del></del>			
01 PRIORITY FOR INSPECTION (Check one # high or medium)	a sheet an associate from 8. When the first	matina	d . Dance-ton city	**************************************			
A. HIGH B. MEDIUM (Proposition (Proposition (Proposition))			D. NO			tion forme	
VI. INFORMATION AVAILABLE FROM		<del></del>					
01 CONTACT	02 OF (Agency/Organs)	Afron)				03 TELEPHONE	NUMBER
	104.5.10	11.1	1 1000		•	1314) 785	
Over Pavely	MO Dept						
	05 AGENCY		WIZATION	07 TELEPHON	E NUMBER	08 DATE	
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# POTENTIAL HAZARDOUS WASTE SITE

	TIFICATION
O) STATE	02 SITE NUMBER

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L IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE OI STATE OZ SITE NUMBER **\$EPA** PRELIMINARY ASSESSMENT ΜO PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS IL HAZARDOUS CONDITIONS AND INCIDENTS 01 C A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE. D POTENTIAL D ALLEGED **04 NARRATIVE DESCRIPTION** 03 POPULATION POTENTIALLY AFFECTED: . Not Applicable 01 SB. SURFACE WATER CONTAMINATION 3 799 02 C OBSERVED (DATE: \_\_ D POTENTIAL MALLEGED \_\_\_\_04 NARRATIVE DESCRIPTION Pond Overflow runs into creek which runs through Frederick town 01 C. CONTAMINATION OF AIR 02 C OBSERVED (DATE \_ [] POTENTIAL C ALLEGED 03 POPULATION POTENTIALLY AFFECTED: . **04 NARRATIVE DESCRIPTION** 01 D. FIRE/EXPLOSIVE CONDITIONS 02 COBSERVED (DATE: ☐ ALLEGED **D** POTENTIAL 03 POPULATION POTENTIALLY AFFECTED: **04 NARRATIVE DESCRIPTION** NA 01 E. DIRECT CONTACT 02 G OBSERVED (DATE: \_ C POTENTIAL ☐ ALLEGED 03 POPULATION POTENTIALLY AFFECTED: \_ 04 NARRATIVE DESCRIPTION NA 01 D F. CONTAMINATION OF SOIL 02 OBSERVED (DATE. . ☐ POTENTIAL ☐ ALLEGED 03 AREA POTENTIALLY AFFECTED: \_ **04 NARRATIVE DESCRIPTION** [ACION] NA 01 ☐ G. DRINKING WATER CONTAMINATION 02 [] OBSERVED (DATE. [] POTENTIAL [] ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION IV A 01 D H. WORKER EXPOSURE/INJURY O POTENTIAL 02 OBSERVED (DATE: ☐ ALLEGED 03 WORKERS POTENTIALLY AFFECTED: . **04 NARRATIVE DESCRIPTION** 01 D L POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE: O ALLEGED D POTENTIAL 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

NA

<b>\$EPA</b>	POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS				CATION SITE HUMBER
L HAZARDOUS CONDITIONS	AND INCIDENTS (Comment				
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DI [] N. DAMAGE TO OFFSITE F 34 NARRATIVE DESCRIPTION	ROPERTY	02 () OBSERVED (DATE:	) C	POTENTIAL	□ ALLEGED
01 © O. CONTAMINATION OF SE 14 NARRATIVE DESCRIPTION	EWERS, STORM DRAINS, WWTP	02 OBSERVED (DATE:	, C	POTENTIAL.	□ ALLEGED
Possible PCB's		02 🔾 OBSERVED (DATE:	) C	POTENTIAL	<b>B</b> √ALLEGED
5 DESCRIPTION OF ANY OTHER	R KNOWN, POTENTIAL, OR ALLE	GED HAZAROS			

V. SOURCES OF INFORMATION (CAN ADOCAL PARAMETER & B. MAIN THE EMPER MARYINE MODERN)
State Files

IIL TOTAL POPULATION POTENTIALLY AFFECTED: 3799

State Files Site Visit

IV. COMMENTS

FETY OUTLINE		Page of			
Use back of ge to complete items) Attach pertinent documents)		County:	County:Site/Location:		
		Site/Location			
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Site Monitoring:		·	·		
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	, Fire #:				

Anochut, Muning Madison G.

# MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY LABORATORY SERVICES PROGRAM

Preliminary Assessment/Site Investigation Report
Anschutz Mining Corporation
Fredericktown, Missouri
February 25, 1986

#### INTRODUCTION

The Anschutz Mining Corporation Site is a former mining site in Fredericktown, Missouri. The Poplar Bluff Regional Office has received reports of transformer oils being dumped at the site. This, along with an aerial surveillance conducted on November 20, 1985, which revealed the presence of two ponds containing a black liquid, resulted in the Waste Management Program requesting that sampling be performed.

On February 25, 1986, sampling was performed by Sam Brenneke and Bill Johnson of the Laboratory Services Program. Other Department of Natural Resources employees present at the time of sampling were Rick Roberts and Greg Pavely of the Poplar Bluff Regional Office and Joe Rowe of the Waste Management Program.

#### METHODS

Liquid samples were collected using a separate clean glass jar as a dipper for each sample. The liquid was placed in the appropriate containers and preserved on site. Soil and sediment samples were collected using a stainless steel spoon to place the soil or sediment into the appropriate container.

All samples were placed on ice to aid in preservation until analyses could be completed.

The cyanide analyses of soil samples were performed by Wilson Laboratories in Salina, Kansas with all other analyses being performed by the Department of Natural Resources Laboratory in Jefferson City, Missouri.

#### OBSERVATIONS

(See Appendix A for site map and sample locations).

The black ponds which were thought to be oil during the aerial surveillance contained only a black water. No oil was observed in either pond. pH measurements of the ponds were performed using pH paper and were determined to be in the range of 1.5-2.0. The dam between the ponds had been cut as well as the berm on pond #2 allowing both ponds to discharge to the site during heavy rains. There were no discharges at the time of sampling.

The small creek that leads off the Anschutz Mining Site was observed to be covered with a light blue-green sludge-like material.

Page 2
Preliminary At Ssment/Site Investigation Report
Anschutz Mining Corporation
Fredericktown, Missouri
February 25, 1986

### RESULTS

The analytical results for the samples collected February 25, 1986, are attached as Appendix B.

Submitted by

Sam Brenneke

Environmental Emergency Specialist

Field Services Section

Laboratory Services Program

Date

Ju⁄1y 31, 1986

Approved by

James H. Long

Director

Laboratory Services Program

cc: Burt McCullough, Waste Management Program
James Burris, Regional Administrator, Poplar Bluff Regional Office

### APPENDIX A

### SITE MAP AND SAMPLE LOCATIONS

Preliminary Assessment/Site Investigation Report Anschutz Mining Corporation Fredericktown, Missouri February 25, 1986



PROGRAM

Appendix A Anschote Mining Corp. Site Map Feb. 25, 1986 Sum Brenneke - Fredericktown Black Ponds 86-2034 \* Marvin Ave €186-2030 86.20L7 old Refinery K44-5033 \* 86-2035 1 Pond Process Area 014 m:11 Tailing 5 pond

### APPENDIX B

### ANALYTICAL RESULTS

Preliminary Assessment/Site Investigation Report
Anschutz Mining Corporation
Fredericktown, Missouri
February 25, 1986

Sample No. 86-2028

Date: 02/25/86

Reported to: SAM BRENNEKE

Date: 6/11/86 Affiliation: EER Project Code: 3535/3000

Sample Description: ANSCHUTZ MINING CO.

GRAB SAMPLE FROM BLACK POND #1, WATER SAMPLE

Collected by: SAM BRENNEKE

Affiliation: EER

PARAMETERS RESULTS.

TOTAL SILVER 40 UG/L

TOTAL ARSENIC NO RESULT

COMMENTS: MATRIX INTERFERENCE

TOTAL BARIUM <100 UG/L

COMMENTS: INTERFERENCE

CYANIDE <0.05 MG/L

TOTAL CADMIUM 280 UG/L Page 2 Sample no. 86-2028 Date 6/11/86

PARAMETERS	RESULTS
TOTAL CHROMIUM	270 UG/L
TOTAL MERCURY	<0.5 UG/L
TOTAL LEAD	1300 UG/L
TOTAL SELENIUM COMMENTS: MATRIX INTERFERENCE	NO RESULT
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	<pre></pre>

Sample No. 86-2029

Reported to: SAM BRENNEKE

Affiliation: EER

Date: 6/03/86

Project Code: 3535/3000

Sample Description:

ANSCHUTZ MINING CO.

GRAB SAMPLE FROM BLACK POND #1, SEDIMENT SAMPLE

Collected by: SAM BRENNEKE

Affiliation: EER

Date: 02/25/86

PARAMETERS

RESULTS.

TEP SILVER

<2500 UG/L

TEP ARSENIC

<2500 UG/L

TEP BARIUM

<10000 UG/L

CYANIDE

<0.01 MG/L

COMMENTS: ANALYZED BY WILSON LABORATORIES

TEP CADMIUM

<500 UG/L

TEP CHROMIUM

Page 2 Sample no. 86-2029 Date 6/03/86

PARAMETERS	RESULTS
TEP MERCURY	<100 UG/L
TEP LEAD	<2500 UG/L
TEP SELENIUM	<2500 UG/L
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254	< 1.0 ug/kg < 1.0 ug/kg < 1.0 ug/kg < 1.0 ug/kg < 1.0 ug/kg < 1.0 ug/kg
PCB-1260	< 1.0 ug/Kg

Sample No. 86-2030

Reported to: SAM BRENNEKE

Affiliation: EER

Date: 6/04/86 Project Code: 3535/3000

Date: 02/25/86

Sample Description: ANSCHUTZ MINING CO.

GRAB SAMPLE FROM BLACK POND #2, WATER SAMPLE

Collected by: SAM BRENNEKE

Affiliation: EER

PARAMETERS RESULTS

TOTAL SILVER 60 UG/L

TOTAL ARSENIC 1800 UG/L

TOTAL BARIUM <100 UG/L

COMMENTS : INTERFERENCE

CYANIDE <0.05 MG/L

TOTAL CADMIUM 320 UG/L

TOTAL CHROMIUM 330 UG/L

Page 2 Sample no. 86-2030 Date 6/04/86

DADAMETERS		RESUL	TS
PARAMETERS	۷٥.	5 UG/	L
TOTAL MERCURY			
TOTAL LEAD	140	0 UG/	L
TOTAL SELENIUM  COMMENTS: MATRIX INTERFERENCE		RESUL	.T
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	< < < < <	1.0 1.0 1.0 1.0	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg

Sample No. 86-2031

Reported to: SAM BRENNEKE

Affiliation: EER

Date: 6/03/86

Project Code: 3535/3000

Sample Description:

ANSCHUTZ MINING CO.

GRAB SAMPLE FROM BLACK POND #2, SEDIMENT SAMPLE

Collected by: SAM BRENNEKE

Affiliation: EER

Date: 02/25/86

PARAMETERS

RESULTS

TEP SILVER

<2500 UG/L

TEP ARSENIC

<2500 UG/L

TEP BARIUM

<10000 UG/L

CYANIDE

0.01 MG/L

COMMENTS: ANALYZED BY WILSON LABORATORIES

<500 UG/L

TEP CHROMIUM

TEP CADMIUM

Page 2
Sample no. 86-2031
Date 6/03/86

PARAMETERS	RESULTS
TEP MERCURY	<100 UG/L
TEP LEAD	<2500 UG/L
TEP SELENIUM	<2500 UG/L
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	< 1.0 ug/Kg

Sample No. 86-2032

Reported to: SAM BRENNEKE

Affiliation: EER

Date: 4/08/86

Project Code: 3535/3000

Sample Description: ANSCHUTZ MINING CO.

SOIL SAMPLE FROM PROCESS AREA CENTER OF SITE

Collected by: SAM BRENNEKE

Affiliation: EER

Date: 02/25/86

PARAMETERS

RESULTS

TEP CADMIUM

<500 UG/L

CYANIDE

<0.01 MG/L

COMMENTS: ANALYZED BY WILSON LABORATORIES

TEP SILVER

<2500 UG/L

TEP ARSENIC

<2500 UG/L

TEP CHROMIUM

<2500 UG/L

TEP LEAD

5800 UG/L

TEP BARIUM

<10000 UG/L

TEP MERCURY

<100 UG/L

TEP SELENIUM

Sample No. 86-2033

Reported to: SAM BRENNEKE

Affiliation: EER

Date: 7/17/86

Project Code: 3535/3000

Sample Description:

ANSCHUTZ MINING CO.

SOIL SAMPLE FROM DRAINAGE BELOW MINING CO.

Collected by: SAM BRENNEKE

Affiliation: EER

Date: 02/25/86

PARAMETERS

RESULTS

TEP SILVER

<2500 UG/L

TEP ARSENIC

<2500 UG/L

TEP BARIUM

<10000 UG/L

CYANIDE

0.04 MG/L

COMMENTS: ANALYZED BY WILSON LABORATORIES

TEP CADMIUM

<500 UG/L

TEP CHROMIUM

Page 2 Sample no. 86-2033 Date 7/17/86

PARAMETERS	RESULTS
TEP MERCURY	<100 UG/L
TEP LEAD	28000 UG/L
TEP SELENIUM	<2500 UG/L
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	<pre></pre>

Sample No. 86-2034

Reported to: SAM BRENNEKE

Affiliation: EER

Date: 6/03/86

Project Code: 3535/3000

Sample Description: ANSCHUTZ MINING CO. BACKGROUND SOIL

Collected by: SAM BRENNEKE

Affiliation: EER

Date: 02/25/86

PARAMETERS

RESULTS

TEP SILVER

<2500 UG/L

TEP ARSENIC

<2500 UG/L

TEP BARIUM

<10000 UG/L

CYANIDE

0.10 MG/L

COMMENTS : ANALYZED BY WILSON LABORATORIES

TEP CADMIUM

<500 UG/L

TEP CHROMIUM

Page 2 Sample no. 86-2034 Date 6/03/86

PARAMETERS	RESULTS
TEP MERCURY	<100 UG/L
TEP LEAD	<2500 UG/L
TEP SELENIUM	<2500 UG/L
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254	< 1.0 ug/Kg < 1.0 ug/Kg < 1.0 ug/Kg < 1.0 ug/Kg < 1.0 ug/Kg < 1.0 ug/Kg
PCB-1260	< 1.0 ug/Kg

Sample No. 86-2035

Reported to: SAM BRENNEKE

Affiliation: EER

Date: 7/17/86

Project Code: 3535/3000

Sample Description:

ANSCHUTZ MINING CO.

WATER SAMPLE FROM DRAINAGE OFF SITE

Collected by: SAM BRENNEKE

Affiliation: EER

Date: 02/25/86

PARAMETERS

RESULTS

TOTAL SILVER

10 UG/L

TOTAL ARSENIC

19 UG/L

TOTAL BARIUM

<100 UG/L

CYANIDE

<0.05 MG/L

TOTAL CADMIUM

10 UG/L

TOTAL CHROMIUM

<5UG/L

Page 2 Sample no. 86-2035 Date 7/17/86

### PARAMETERS

TOTAL MERCURY

TOTAL LEAD

### TOTAL SELENIUM

PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260

### RESULTS

<0.5 UG/L

140 UG/L

### <5UG/L

1.0 ug/L 1.0 ug/L 1.0 ug/L 1.0 ug/L 1.0 ug/L 1.0 ug/L 1.0 ug/L

< <